

SUPERCAPACITORS

Type	EDLC		LIC Hybrid		Coincell	
Series	DGH	DSF	VMF	VPF	EDC	EDS
Description	<ul style="list-style-type: none"> • Very Fast Charge/Discharge • High Power Density • Low ESR 	<ul style="list-style-type: none"> • High Voltage 3.0 Vdc • Higher Energy Density than 2.7 V (+24%) 	<ul style="list-style-type: none"> • High Voltage 3.8V • High Energy Density • High Temp. +85 °C 	<ul style="list-style-type: none"> • High Voltage 3.8 V • High Energy Density • Low Temp. -25 °C 	<ul style="list-style-type: none"> • Long Life • High Operating Temp. 70 °C 	<ul style="list-style-type: none"> • Long Life • Higher Operating Temp. 85 °C
Capacitance Range (Tolerance)	0.5F to 600F (-10% +30%)	1.5F to 600F (-10% +30%)	40F to 220F (±20%)	40F to 220F (±20%)	0.047F to 1.5F (-20% +80%)	0.047F to 1.5F (-20% +80%)
WVdc	2.7 Vdc (1F to 600F) 5.5 Vdc (0.5F to 5F)	3 Vdc (3F to 600F) 6 Vdc (1.5F to 5F)	2.2 Vdc - 3.8 Vdc (Vmin - Vmax)	2.2 Vdc - 3.8 Vdc (Vmin - Vmax)	5.5 Vdc (0.047F to 1.5F) 6.3 Vdc (0.1F to 1F)	3.6 Vdc (0.047F to 1.5F) 5.5 Vdc (0.1F - 1F)
Temp. Range	-40 °C to +85 °C (2.3 Vdc @ +85 °C)	-40 °C to +85 °C (2.5 Vdc @ +85 °C)	-15 °C to +70 °C (3.5 Vdc @ +85 °C)	-25 °C to +70 °C	-25 °C to +70 °C	-25 °C to +85 °C
ESR	3mΩ - 200mΩ (2.7 Vdc, AC 1kHz) 80mΩ - 400mΩ (5.5 Vdc, AC 1kHz)	3mΩ - 80mΩ (3 Vdc, AC 1kHz) 100mΩ - 180mΩ (6 Vdc, AC 1kHz)	60mΩ - 250mΩ (AC 1kHz)	60mΩ - 250mΩ (AC 1kHz)	30Ω - 120Ω (AC 1kHz)	30Ω - 120Ω (AC 1kHz)
Case Size	∅ 6mm - 35mm (2.7 Vdc) 15mm - 26mm (5.5 Vdc)	∅ 6mm - 35mm (3 Vdc) 15mm - 21mm (6 Vdc)	∅ 8mm - 18mm	∅ 8mm - 18mm	∅ 11.5mm & 19mm (V Type) ∅ 11.5mm & 19mm (H Type) ∅ 13.5mm - 21.5mm (C Type)	∅ 11.5mm & 19mm (V Type) ∅ 11.5mm & 19mm (H Type) ∅ 13.5mm - 21.5mm (C Type)
Life Time	<ul style="list-style-type: none"> • 1,500 h with Vr @ 65 °C • 10 years @ ambient Temp. • 500,000+ cycles 	<ul style="list-style-type: none"> • 1,500 h with Vr @ 65 °C • 10 years @ ambient Temp. • 500,000+ cycles 	<ul style="list-style-type: none"> • 1,000 h with Vr @ 70 °C • 10 Years • 500,000+ cycles 	<ul style="list-style-type: none"> • 1,000 h with Vr @ 60 °C • 10 Years • 250,000+ cycles 	<ul style="list-style-type: none"> • 1,000 h with Vr @ 70 °C 	<ul style="list-style-type: none"> • 1,000 h with Vr @ 85 °C
Lead Configurations	Radial - 1F to 70F 2 Pin Snap In - 100F to 350F 4 Pin Snap In - 400F to 600F Dual Pack (5.5 Vdc) - 1F to 5F	Radial - 3F to 110F 2 Pin Snap In - 100F to 200F 4 Pin Snap In - 350F to 600F Dual Pack (6 Vdc) - 1.5F to 5F	Radial	Radial	V Type (Vertical) H Type (Horizontal) C Type (Radial)	V Type (Vertical) H Type (Horizontal) C Type (Radial)
Applications	Industrial IoT – Green Energy/Wind/Solar – Small EV – Power backup – Pulse Power – Energy Harvesting – LED Displays – Mechanical Actuators – UPS Systems – Asset Tracking – AGV		Solar/Wind Energy Storage – Pulse Power – Energy Harvesting – UPS Systems – Smart Meters – Mechanical Actuator – LED Displays – AGV		CPU Memory Backup – Solar Battery Backup & Energy Storage – RTC - Battery Backup – Smart Meters – Industrial Controls – Telematics	

